

### An honesty-optional rock, paper, scissors program

The first problem asks you to practice

- creating new python files (in this case, by copying old ones)
- writing a bit of your own code (by altering another program, if you wish)
- textual input and output in Python

The idea is this: alter the program in [hw0pr1.py](#) so that it invites the user to play a game of "rock-paper-scissors." Your program may play an honest game of RPS, but you're also welcome to create a player that always wins (or, if you prefer, that always loses). Adding side comments to the graders who will be running your program is optional, but strongly encouraged.

#### Creating a new file named `hw0pr2.py`

- To create a new file named `hw0pr2.py`, first make sure you have [hw0pr1.py](#) (download it again, if necessary), and then copy-and-paste it to a new file. Rename that file to `hw0pr2.py`
- *Do I really have to use that name?* Actually, no — you can use whatever name you like as you *work on* the homework assignment files, but when you submit them, you **DO** have to have them named as specified in the assignment. So, it's easiest to name them as what the TAS are expecting from the very beginning.

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### How the program should work

- The program should ask the user to choose rock, paper, or scissors. Then, it should repeat back to the user their choice, it should "reveal" its own choice, and then report the results. See below for an example run. The program can play fairly, can always win, or can always lose — it's up to you. Briefly, in the game of [rock-paper-scissors](#), rock defeats scissors, scissors defeat paper, and paper defeats rock.
- You may assume that the user will input one of `rock`, `paper`, or `scissors`. (Optionally, you may catch errors and report them — but it's not required.)
- Too much time on your hands? Add "lizard" and "spock" as noted [at this RPSSL link](#). Even more time? Consider [RPS -25](#), a strict superset of RPS. But if you have enough time for [RPS-101](#), you aren't watching enough Simpsons reruns.
- ~~You may write the dialog however you like — below is an example dialog if you'd like one to follow. We are **positive** that you can improve on this interaction, however. Here are two distinct runs of the program:~~

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<http://www.worldrps.com/>



<http://www.samkass.com/theories/RPSSL.html>



<http://www.umop.com/rps25.htm>



<http://www.umop.com/rps101/rps101chart.html>



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```
>>>  
Choose rock, paper, or scissors: scissors
```

```
You chose scissors - I chose rock  
I win!
```

```
>>>  
Choose rock, paper, or scissors: paper
```

```
You chose paper - I chose scissors  
I win!  
>>>
```

- Note that taunting and/or praising the graders (the students who grade assignments and hold tutoring hours) with your dialog is encouraged — and even more and more as the semester wears on and they become increasingly sleep-deprived.

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